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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/758,645

01/14/2004

YingXiang Kang

YXK001

6273

46396 7590 01/17/2007  
CHEIN-HWA S. TSAO  
6684 MT PAKRON DRIVE  
SAN JOSE, CA 95120

EXAMINER

NGUYEN, CUONG H

ART UNIT

PAPER NUMBER

3661

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

01/17/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/758,645	<b>Applicant(s)</b> KANG, YINGXIANG	
	<b>Examiner</b> CUONG H. NGUYEN	<b>Art Unit</b> 3661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 14 January 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,3-20 and 22-31 is/are rejected.
- 7) ☒ Claim(s) 2,21 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

***DETAILED ACTION***

1. This Office Action is the answer to the communication received on 1/14/2004 (the application).
2. Claims 1-31 are pending in this application.

***Priority***

3. This application claims the priority of a provisional application Ser. No. 60/440,528, filed Jan. 17, 2003.

***Claim Rejections***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1, and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
  - A. Claim 1 is rejected on 35 USC 112, 2nd para. for missing critical information since the claim term is unclear to one of ordinary skill in the art, claimed "reversing a latest route through which a vehicle was driven in a first direction" is merely a step of backing up a vehicle if a wrong decision was made (see dependent claims 9-10 that require a very short move of the vehicle based on a very short of time/distance). For that backing up action, a steering wheel rotation angle, a turning angle of the wheel, a vehicle moving speed, vehicle directions, and an elapsed driving time must be recorded so that no gap is existed for a clear

and complete claimed method.

B. Claim 12 is rejected on 35 USC 112, 2nd para. for missing critical information since the claim term is unclear to one of ordinary skill in the art, “reversing a latest route through which a vehicle was driven in a first direction” is merely an act of backing up a vehicle if a wrong decision was made (see dependent claims 28-29 for a very short move of the vehicle based on a very short of time/distance). For that Driving Route Recording-Move System (DRRM) using in backing-up action, information of a steering wheel rotation angle, a turning angle of the wheel, a vehicle moving speed, vehicle directions, and an elapsed driving time must be used/recorded so that no gap is existed for a complete claim, and providing sufficient critical information.

In summary, these claims fail to comply with section 112, 2nd para., in failing distinctly to claim what applicant insists is his actual invention. There is no clear recitation of claimed structural variables; therefore the above claim are incomplete, and indefinite and in this way does not conform to the requirement of 35 USC 112.

5. Dependent claims 3-11, and 13-20, 22-31 are also rejected because they incorporate above defect from their parent claims 1, and 12.

6. Claims 2, and 21 are objected because they are dependent on claims 1, and 12.

7. Remark: The applicant admits that “the present invention is directed to backing a big vehicle in darkness, when visibility is low, driving on a narrow road or at a complicated location” and the claimed limitations do not reflect those conditions (see claims 1, and 12); i.e., including a steering wheel rotation angle, a turning angle of the wheels, vehicle moving

speed, vehicle direction and an elapsed driving time – these conditions are critical while recording to a memory for use later on.

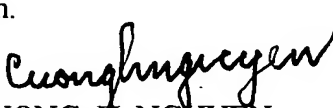
The above claims broadly claimed a concept of using a memory to record any change of driving steps/condition/data then using those record information.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CUONG H. NGUYEN whose telephone number is 571-272-6759 (email address: cuong.nguyen@uspto.gov). The examiner can normally be reached on 9:30 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THOMAS G. BLACK can be reached on 571-272-6956. The Rightfax number for the organization where this application is assigned is 571-273-6759.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Please provide support, with page and line numbers, for any amended or new claim in an effort to help advance prosecution; otherwise any new claim language that is introduced in an amended or new claim may be considered as new matter, especially if the Application is a Jumbo Application.

  
CUONG H. NGUYEN  
Primary Examiner  
Art Unit 3661